## SEQUENCE LISTING

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<110> WUCHERPFENNIG, KAI
     SETH, NILUFER
<120> NOVEL COMPOSITIONS AND METHODS FOR THE
     GENERATION OF MHC CLASS II COMPOUNDS BY
      PEPTIDE EXCHANGE
<130> DFS-044.01
<140> 10/617,568
<141> 2003-07-11
<150> 60/395494
<151> 2002-07-12
<150> 60/397893
<151> 2002-07-22
<160> 36
<170> FastSEQ for Windows Version 4.0
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Pro Val Ser Lys Met Arg Met Ala Thr Pro Leu Leu Met Gln Ala
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Ala Ala Met Ala Ala Ala Ala Ala Ala Met Ala Ala
                5
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<400> 3
Ala Ala Met Ala Ala Ala Ala Ala Ala Ala Ala Ala
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<210> 4
<211> 13
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Ala Ser Met Ser Ala Ala Ser Ala Ala Ser Met Ala Ala
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Gly Leu Asn Asp Ile Phe Glu Ala Gln Lys Ile Glu Trp His Glu
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Gly Gly Ser Gly Gly Ser
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Cys Gly Gly Pro Val Ser Lys Met Arg Met Ala Thr Pro Leu Leu
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Met Gln Ala
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<400> 9
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<212> PRT

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Cys Gly Gly Gly Pro Lys Tyr Val Lys Gln Asn Thr Leu Lys Leu Ala
1
                                    10
Thr
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<211> 13
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Tyr Lys Arg Trp Ile Ile Leu Gly Leu Asn Lys Ile Val
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Leu Asn Lys Ile Val Arg Met Tyr Ser Pro Thr Ser Ile
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Ser Pro Glu Val Ile Pro Met Phe Ser Ala Leu Ser Glu Gly
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Asp Arg Phe Tyr Lys Thr Leu Arg Ala Glu Gln Ala Ser Gln
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<211> 15
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<213> Homo sapiens
Glu Gln Ile Gly Trp Met Thr Asn Asn Pro Pro Ile Pro Val Gly
                                10
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Pro Lys Tyr Val Lys Gln Asn Thr Leu Lys Leu Ala Thr
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Trp Asn Arg Gln Leu Tyr Pro Glu Trp Thr Glu Ala Gln Arg Leu Asp
                5
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<212> PRT
<213> Homo sapiens
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Asp Val Pro Lys Trp Ile Ser Ile Met Thr Glu Arg Ser Val Pro His
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<211> 15
<212> PRT
<213> Homo sapiens
<400> 18
Val Val His Phe Phe Lys Asn Ile Val Thr Pro Arg Thr Pro Pro
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                                                        15
                                    10
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Gly Tyr Lys Val Leu Val Leu Asn Pro Ser Val Ala Ala Thr Leu
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<213> Homo sapiens
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Ser Gly Glu Asn Leu Pro Tyr Leu Val Ala Tyr Gln Ala Thr Val Cys
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5
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Ala Arg Ala
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Ser Gly Ile Gln Tyr Leu Ala Gly Leu Ser Thr Leu Pro Gly Asn Pro
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Ala Ile Ala Ser Leu
           20
<210> 22
<211> 17
<212> PRT
<213> Homo sapiens
<400> 22
Val Ser Ser Val Ser Ser Gln Phe Ser Asp Ala Ala Gln Ala Ser Pro
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Ser
<210> 23
<211> 18
<212> PRT
<213> Homo sapiens
<400> 23
Gly Ala Gly Ser Leu Gln Pro Leu Ala Leu Glu Gly Ser Leu Gln Lys
                5
                                   10
                                                       15
Arg Gly
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<212> PRT
<213> Homo sapiens
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Leu Ile Ala Phe Thr Ser Glu His Ser His Phe Ser Leu Lys
               5
                                   10
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<211> 17
<212> PRT
<213> Homo sapiens
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1
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Asp
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Glu Asn Pro Val Val His Phe Phe Lys Asn Ile Val Thr Pro Arg
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<210> 27
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Val Val His Phe Phe Lvs Asn Ile Val Thr Pro Arg Thr Pro Pro
                                    10
                                                        15
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Leu Tyr Gly Ala Leu Leu Ala Glu Gly Phe Tyr Thr Thr Gly Ala
                                   10
Val Arg Gln Ile
            20
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<211> 20
<212> PRT
<213> Homo sapiens
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Phe Tyr Thr Gly Ala Val Arg Gln Ile Phe Gly Asp Tyr Lys Thr
                                   1.0
Thr Ile Cys Gly
            20
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<211> 23
<212> PRT
<213> Homo sapiens
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Ala Val Arg Gln Ile Phe Gly Asp Tyr Lys Thr Thr Ile Cys Gly Lys

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5
                                  10
                                                   15
Gly Leu Ser Ala Thr Val Thr
           20
<210> 31
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<400> 31
Ala Val Pro Val Tyr Ile Tyr Phe Asn Thr Trp Thr Thr Cys Gln Ser
                                  10
Ile Ala Phe Pro
           20
<210> 32
<211> 19
<212> PRT
<213> Homo sapiens
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Ile Ala Ala Thr Tyr Asn Phe Ala Val Leu Lys Leu Met Gly Arg Gly
                                  10
Thr Lys Phe
<210> 33
<211> 19
<212> PRT
<213> Homo sapiens
Gln Phe Arg Val Ile Gly Pro Arg His Pro Ile Arg Ala Leu Val Gly
                5
                                  10
Asp Glu Val
<210> 34
<211> 20
<212> PRT
<213> Homo sapiens
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Gly Lys Asn Ala Thr Gly Met Glu Val Gly Trp Tyr Arg Pro Pro Phe
                                  10
Ser Arg Val Val
           20
<210> 35
<211> 20
<212> PRT
<213> Homo sapiens
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<400> 35
Trp Tyr Arg Pro Pro Phe Ser Arg Val Val His Leu Tyr Arg Asn Gly
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Lys Asp Gln Asp
           20
<210> 36
<211> 13
<212> PRT
<213> Artificial Sequence
<220>
<223> Synthetic Peptide
<220>
<221> MOD RES
<222> (3)
<223> Xaa = Any Amino Acid
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<221> MOD RES
<222> (11)
<223> Xaa = Any Amino Acid
<400> 36
Ala Ala Xaa Ala Ala Ala Ala Ala Ala Xaa Ala Ala
                                   10
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